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PATENTS, TRADEMARKS & RELATED INTELLECTUAL PROPERTY MATTERS

Patent Application Assistant Commissioner for Patents Washington, DC 20231

Docket No. 20/118

Enclosed for filing is the Utility Patent Application entitled A WARNING SYSTEM by Roger E. Skoff

- X Enclosed are 2 sheets of drawings.
- X Enclosed are 16 pages of specification.
- X Enclosed is a Declaration.
- X Enclosed is a Verified Statement for small entity status.
- ___ Enclosed is an Assignment for recordation
- ___ Please transfer Disclosure Document No. dated _ to this file.
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The filing fee has been calculated as shown below:

ITEM	CLAIMS # filed # ex	tra	SMALL	ENTI	TY				
Design application 1. Basic utility app. fee 2. Total claims 3. Independent claims	16 - 20 = 2 - 3 =	x \$9 x \$39	==	\$155	\$345				
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Timothy T. Tyson, Reg. No: 28,915

Attorney for Applicant(s)

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Docket No: 20/118

Applicant or Patentee: ROGER E. SKOFF

Serial or Patent No: Filed or Issued: For: A WARNING SYSTEM

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27)

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled A WARNING SYSTEM as described in

[X]	the specific	cation filed	herev	vith	
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I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

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I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Roger E. Skoff NAME OF INVENTOR

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Signature of Invento

Date

TITLE: A WARNING SYSTEM

INVENTOR: ROGER E. SKOFF

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TECHNICAL FIELD

The present invention pertains generally to the field of alarm and warning systems such as those utilized to initiate and/or facilitate evacuation, and more particularly to a warning system that may contain one or a plurality of sensors and provides programmable warning and/or evacuation alarms and verbal instructions in the event of an emergency.

BACKGROUND ART

Warning and alarm systems for alerting people to emergency and other abnormal conditions are well known in the art. Such devices range from simple fire alarms to more complex systems which employ a plurality of sensing devices. All of these devices involve either a central system actuated by local sensors to "sound" local alarms, or are self-contained local units, which are and must only be independent of any overall system interaction. For example, U.S. Patent 3,798,672 shows a multiple condition sensing and audio warning system. The system includes a multi-track magnetic tape playing apparatus with a playback head selectively movable to any one of a plurality of track positions, an audio system connected to the output of the tape playing apparatus including speakers at selected locations, and a plurality of condition sensors each providing a signal representative of a condition being sensed. A control circuit is responsive to the condition signals and initiates operation of the tape playing apparatus. U.S. Patent 4,107,464 illustrates an alarm communication system which includes a circuit for normally transmitting music to a plurality of different locations within a building which includes a

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source of music, a plurality of speakers selectively positioned throughout the building and a normally closed switch for connecting the source of music to each of the speakers. A source of programmed alarm announcements stored on tape is converted to an electrical signal, amplified and coupled to each of the speakers via an override switch. Actuation of the override switch in response to the occurrence of an emergency condition, such as fire, causes the normally closed switch to open and couple the electronic signal corresponding to the programmed alarm announcements to all of the speakers. U.S. Patent 4,288,789 defines an alarm system having a verbal message for monitoring mining operations, or the like. The system includes a plurality of first sensors each providing a signal representation of an abnormal condition being sensed, at least one additional sensor providing a signal representing an emergency condition being sensed, an oscillator and modulator for generating an emergency warning tone energized upon detection of the emergency condition, a plurality of speakers at selected locations for broadcasting the emergency warning tone, a multi-track tape player with playback head selectively movable to any one of the track positions and having an audio output connected to local and remote speakers, and circuit means effective to energize the tape player and move its head to an appropriate track containing a prerecorded oral message upon detection of an abnormal condition by one of the first sensors. U.S. Patent 4,415,771 discloses a public alert and advisory system for communication of emergency and/or other information from one or more central locations to a plurality of remote locations, such as by way of example, information regarding nuclear accident and evacuation procedures. The system utilizes conventional programming stations such as AM, FM or TV stations, central transmitting equipment, with emergency information being modulated by a second modulation technique different from the first modulation technique for ordinary programming so that conventional manually operated programming receivers will not be responsive to the emergency information. U.S. Patent 4,531,114 portrays an intelligent fire safety system which includes exit sign units having couplings to smoke sensor and heat sensor for input information, a speech synthesizer and strobe light to provide output information, and a communication unit to provide communication coupling between exit sign units on a single floor and between interfloor interfaces and a central monitoring unit. The exit sign

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provides both a strobe light and a speech synthesizer which provides verbal instructions to floor occupants. U.S. Patent 4,682,348 comprises a life safety audio system having a voice synthesizer and a constant volume telephone network. The system has a plurality of detectors for detecting alarm conditions located throughout the building, a plurality of speakers located throughout the building, a source of pre-stored voice messages which can be broadcast over the speaker, and a telephone network. U.S. Patent 4,816,809 consists of a speaking fire alarm system which not only gives an alarm in voice on an occurrence of a fire, but also provides some information necessary for coping with the situation. The system includes a CPU, host computer, and voice synthesizer. U.S. Patent 5,074,137 describes a programmable atmospheric stabilizer which uses one or more sensors for detecting a condition of potentially hazardous material within a container or some other enclosed atmosphere. The sensors connect to a first threshold detector which activates a first order correcting device when the sensor detects a first order hazard. The sensor also connects to a second threshold detector which activates a second correcting device when the sensor detects a second order hazard. U.S. Patent 5,291,183 includes a multi-function alarming system which employs a vocoder which enables the alarm system to emit not only a buzzing sound but also a human voice. The alarm system has a microphone, a microphone amplifier, a vocoder, a memory, a preamplifier, a power amplifier and a speaker. U.S. Patent 5,349,338 depicts a fire alarm system having recorded vocal warning messages and/or instructions. The system has a microphone by which a user can record a vocal message specifically suited for a small child or adult in need of verbal instructions. U.S. Patent 5,663,714 shows a warning system for giving verbal instructions during a fire, comprising a smoke detector, a smoke detector output relay, a recording switch, a microphone, a digital recording and playback device, a timer/pulse generator, a pulse counter, a number of speakers, an amplifier and an alarm tone generator. U.S. Patent 5,724,020 illustrates a voice warning system for fire accidents which includes a plurality of fire sensors, a first multiplex selector, a detecting and scanning circuit, a locking circuit, a decoding circuit, a memory circuit, a second multiplex selector, a scanning circuit, a load, a time pulse controlling circuit, a fire emergency assistance calling circuit, and a plurality of loudspeakers which give fleeing instructions to

people in the building. U.S. Patent 5,990,796 defines a flash and voice warning system generally comprising a power supply with charging circuit, a smoke sensor power supply and auto reset circuit, a smoke sensor (or manual operation), a circuit for converting current to voltage, a single-chip microprocessor, a 60 Hz square wave generator, a control circuit, a buffer, a current amplifier, a high-voltage circuit, N-discharge tube circuits, N-triggering circuits, a flash lamp direction control circuit, and a voice circuit.

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DISCLOSURE OF INVENTION

The present invention is directed to a warning system which can detect any of one or more emergency conditions and provide any or any combination of multiple programmed responses thereto, each individually tailored to the specific type of emergency at hand and the specific location of the actual warning device within the system's area of operation. The warning systems includes a plurality of input trips which sense emergency conditions in a local area. The warning system then issues programmable emergency responses or alarms in the form of emergency lights, strobe lights, and audio messages (verbal, a siren, a buzzer, etc.). The warning system is capable of multiple responses (different sounds or messages, or combinations of sounds and messages, or messages in different languages or multiple languages) triggered by, or in response to, different emergency situations (fire, earthquake, explosion, intruders, presence of smoke, radiation, noxious or poisonous gases, and the like). The warning system is individually programmable to give differing specific instructions for evacuation from specific locations within the protected area. The warning system is capable of operation either individually or as part of a system for the protection of a larger area. If used as part of an overall system, the evacuation devices can be "connected" to the system either by direct wiring or by radio- or other remote control. If used as part of an overall system, all of the covered devices will be capable of sensing the failure or destruction, or disconnection by any means, of the central control device for the system of which they are a part, and upon so doing, will immediately and independently commence alarm and the issuance of preselected instructions.

In accordance with a preferred embodiment of the invention, a warning system comprises a central control unit and a plurality of local units connected to the central control unit, each of the local units having a plurality of input trips and a plurality of programmable responses thereto; the plurality of input trips including a disconnect trip to indicate that the central control unit or connection thereto has failed.

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In accordance with an important aspect of the invention, the plurality of programmable responses include a warning output signal sent from the local unit to the central control unit to indicate the presence of a local emergency.

In accordance with an important feature of the invention, the warning output signal is also sent when a loss of local unit power is detected.

In accordance with another important aspect of the invention, the plurality of input trips may include a smoke detector, an earthquake detector, a noxious/poison gas detector, a proximity/motion intruder detector, a radiation detector, an explosion detector, or any other sensing device. A TV camera, a digital still camera, a microphone and/or other video, photographic or audio monitoring device may also be included.

In accordance with another important feature of the invention, the plurality of programmable responses may include illumination of an emergency light, illumination of a strobe light, and the broadcast of an audio message (verbal, siren, buzzer, or the like).

In accordance with another important aspect of the invention, under emergency conditions, the central control unit may broadcast either or both of (1) preselected audio, and (2) live voice instructions, to one or more local units of which the local trips have not been tripped. Also, the local units may be equipped with a microphone so that verbal messages may be sent to the central control unit.

Other features and advantages of the present invention will become apparent from the following detailed description, taken in conjunction with the accompanying drawings, which illustrate, by way of example, the principles of the invention.

BRIEF DESCRIPTION OF DRAWINGS

FIG. 1 is a block diagram of a warning system in accordance with the present

- 5 invention; and,
 - FIG. 2 is a matrix showing conditions and responses thereto.

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MODES FOR CARRYING OUT THE INVENTION

Referring initially to FIG. 1, there is illustrated a block diagram of a warning system in accordance with the present invention, generally designated as 20. Warning system 20 includes the following components:

CCU. Central Control Unit

LU. Local Unit (one or more)

- A_n. Input Trips/Sensors;
- B. Control Electronics (including operating and switching functions);
- C. Bypass Relay;
- D. Record/Playback Unit;
- E. Emergency Light;
- F. Strobe Light;
- G. Amplifier;
- H. Loudspeaker; and,
- I. Battery.

Warning system 20 also includes the following signals:

- MI. Music/Paging Input;
- DI. Detector Input; and,
- WO. Warning Output.

It may be appreciated that while only one local unit LU is shown in FIG. 1., a plurality of local units LU, each disposed in a different local area, may be connected to the central control unit CCU.

The central control unit **CCU** comprises the central monitoring and control station of warning system 20. A plurality of local units **LU** are connected to the central control unit **CCU** (either hardwired, by RF, or by other means). Each of the plurality of local units **LU** has a plurality of input trips **A**_n and a plurality of programmable responses thereto. The plurality of programmable responses for each local unit **LU** are tailorable to meet the needs of a particular location. Input trips **A**_n can include any number of

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sensor/transducer devices that detect an emergency or abnormal condition. For example, input trip A_2 could be a smoke detector, input trip A_3 could be an earthquake detector, input trip A_4 could be a proximity or motion detector, and input trip A_5 could be a noxious or poison gas detector. Input trips could also include devices to sense AC power failure, heat sensors, radiation sensors, explosion sensors, or any other devices which could report the presence of an emergency or abnormal occurrence at the local unit LU. Audio, video, photographic or other monitoring devices could be included, along with various input trips A_n . The plurality of input trips A_n also includes a disconnect trip A_1 which indicates that the central control unit CCU or connection thereto has failed. Disconnect trip A_1 is activated by loss of the detector input DI signal which is sent to the local units LU from the central control unit CCU. Failure of this signal indicates failure, destruction, or disconnection, of the central control unit CCU. The signal sent to detector input DI may be DC, RF, IR, or any other convenient transmission format.

The plurality of programmable responses includes various alarms such as illumination of an emergency light **E**, illumination of a strobe light **F** (for the hearing impaired), and a plurality of audio messages (verbal voice messages broadcast in a plurality of different languages, siren, buzzer, etc.) as output from record/playback unit **D**. The exact number and content of the programmable responses is selectively controlled by the control electronics **B**. The plurality of programmable responses also includes a warning output **WO** signal which is sent from the local unit **LU** to the central control unit **CCU** to indicate the presence of a local emergency. In a preferred embodiment, the warning output **WO** signal is also sent when a loss of local unit **LU** power is detected.

Control electronics **B** contain all of the control, switching, programming, and operating circuitry necessary to initiate the desired emergency responses. Control electronics **B** cause the appropriate message from the record/playback unit **D** to be sent to amplifier **G** to power loudspeaker **H**. It may be appreciated that the present invention can be designed and programmed to provide any desired response to any number of emergency or abnormal conditions.

Record/playback unit **D** contains a plurality of pre-recorded emergency messages and instructions that are selected by the control electronics **B** depending upon the nature

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of the emergency as detected by the input trips \mathbf{A}_n . The record/playback unit can employ tape, IC-controlled, or any other recording and playback technology.

Under non-emergency conditions, the central control unit CCU broadcasts preselected audio MI (for example music and/or paging messages) to each of the local units LU. However, when one of input trips A_n is activated, the control electronics B cause bypass relay C to disconnect the preselected audio MI, and substitute the appropriate programmable response from the local unit LU. That is, loudspeaker H is driven by control electronics B, record/playback unit D, and amplifier G, rather than from music/paging input (preselected audio) MI. Concurrently, the warning output WO signal notifies the central control unit CCU that bypass relay C has been activated, thereby indicating a local emergency.

Amplifier G, loudspeaker H, and battery I comprise conventional readily available electronics technology.

In another preferred embodiment, if an emergency condition outside the area of the local unit LU is detected (i.e. no local input trip has been activated), it still may be desirable to broadcast emergency messages or instructions. In this instance, all alarms or instructions will come to the local unit LU from the CCU by way of the music/paging input MI. Also, the local units LU may be equipped with a microphone so that verbal messages may be sent to the central control unit CCU.

In another possible embodiment, local unit LU could operate as a stand alone system without the central control unit CCU.

FIG. 2 is a matrix showing various emergency conditions and possible programmed responses thereto. For example, if smoke is detected at a local unit LU, the emergency lights are illuminated, strobe lights are illuminated, the normal audio MI (e.g. music/paging) from the CCU is disconnected, an audio message (verbal, siren, buzzer, etc.) is broadcast, and a warning output WO signal is sent from the local unit LU to the central control unit CCU indicating that an emergency condition exists. In a preferred embodiment, if an intruder is detected by a proximity/motion input trip A₄, no local response (e.g. emergency lights, strobe light, etc.) is directed, however the warning output WO signal is sent to the central control unit CCU in the form of a "silent alarm". If loss

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of local unit LU power is detected, the warning output WO signal is also sent to the central control unit CCU. If failure or destruction of the central control unit CCU is detected through loss of the detector input DI signal, in a preferred embodiment all of the local unit LU response devices are activated.

In terms of physical construction, the present invention can be fabricated in three or more physical configurations. These are:

"EXIT SIGN" - Either one or two-sided, and may be mounted either in or on a wall or suspended from the ceiling or other support structure.

"BOX" - This may be mounted to a wall, bracket-mounted, or suspended from a ceiling or other support structure.

"FLUSH" - This will be flush-mounted (or possibly concealed, either for cosmetic or security reasons) in a wall or ceiling.

The preferred embodiments of the invention described herein are exemplary and numerous modifications, dimensional variations, and rearrangements can be readily envisioned to achieve an equivalent result, all of which are intended to be embraced within the scope of the appended claims.

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1.	А	warning	system	comprising
		************	Dy Deciti,	COMPLIBITION

a central control unit;

a plurality of local units connected to said central control unit;

each of said plurality of local units having a plurality of input trips and a plurality of programmable responses thereto;

said plurality of programmable responses for each said local unit tailorable to meet the needs of a particular location; and,

said plurality of input trips including a disconnect trip indicating that said central control unit has failed.

2. A warning system according to Claim 1, further including:

said plurality of programmable responses including a warning output signal sent from said local unit to said central control unit which indicates the presence of a local emergency.

3. A warning system according to Claim 2, further including:

said warning output signal being sent when a loss of local unit power is detected.

4. A warning system according to Claim 1, further including: said plurality of input trips including a smoke detector.

5. A warning system according to Claim 1, further including: said plurality of input trips including an earthquake detector.

6. A warning system according to Claim 1, further including: said plurality of input trips including a motion detector.

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- A warning system according to Claim 1, further including:
 said plurality of input trips including a noxious or poisonous gas detector.
- 8. A warning system according to Claim 1, further including: said plurality of programmable responses including illumination of an emergency light.
 - A warning system according to Claim 1, further including:
 said plurality of programmable responses including illumination of a strobe light.
 - 10. A warning system according to Claim 1, further including:
 said plurality of programmable responses including the broadcast of an audio message.
 - 11. A warning system according to Claim 10, further including:
 said audio message being a verbal message that is broadcast in a plurality of different languages.
- 20 12. A warning system according to Claim 1, further including: under non-emergency conditions, said central control unit broadcasting preselected audio to each of said local units.
- 13. A warning system according to Claim 12, further including:
 25 when one of said input trips is activated, said preselected audio is disconnected.
 - 14. A warning system according to Claim 1, further including:

 under emergency conditions, said central control unit allows for broadcasting at least one of (1) preselected audio, and (2) live voice instructions to at least one of said local units, of which no local trip has been tripped.

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15. A warning system acc	cording to Claim	1, further	including
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said plurality of programmable responses including a warning output signal sent from said local unit to said central control unit which indicates the presence of a local emergency;

said warning output signal being sent when a loss of local unit power is detected;

said plurality of input trips including a smoke detector;

said plurality of input trips including an earthquake detector;

said plurality of input trips including a motion detector;

said plurality of input trips including a noxious or poisonous gas detector;

said plurality of programmable responses including illumination of an emergency

light;

message;

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said plurality of programmable responses including illumination of a strobe light; said plurality of programmable responses including the broadcast of an audio

under non-emergency conditions, said central control unit broadcasting preselected audio to each of said local units; and,

when one of said input trips is activated, said preselected audio is disconnected.

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16. A warning system, comprising:

a central control unit;

a plurality of local units connected to said central control unit;

each of said plurality of local units including a plurality of input trips;

said input trips connected to control electronics;

said control electronics connected to a bypass relay;

said control electronics connected to a plurality of response devices;

said control electronics connected to a record/playback unit;

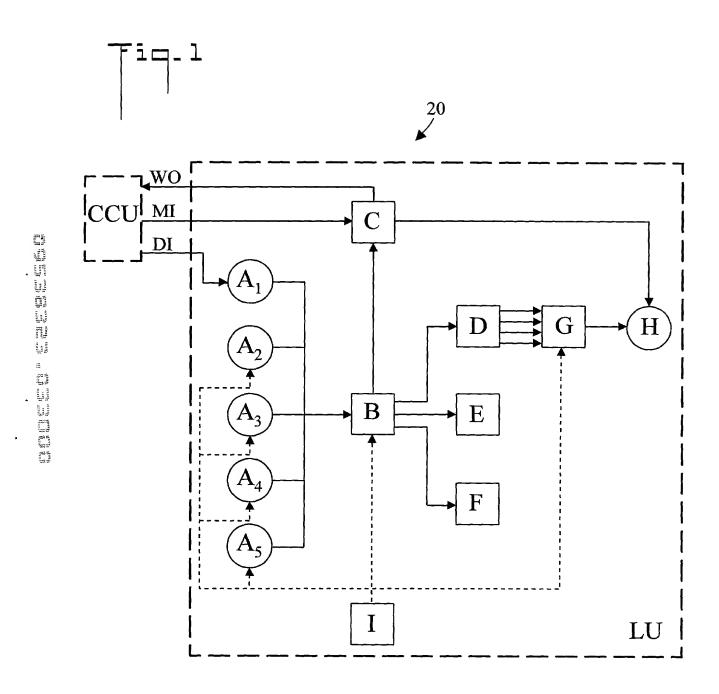
said record/playback unit connected to an amplifier;

said amplifier connected to a loudspeaker; and,

a battery pack connected to said plurality of input trips, said control electronics, and said amplifier.

ABSTRACT

A warning system (20) includes a central control unit (CCU), and a plurality of local units (LU) connected to the central control unit (CCU). Each local unit (LU) includes a plurality of input trips (A_n), such as smoke detector, an earthquake detector, and gas detector, and a plurality of programmable responses, such as a bypass relay (C), a message delivered by a record/playback unit (D), an emergency light (E), and a strobe light (F). The input trips (A_n) also include a disconnect trip (A₁), which is activated by a detector input signal (DI) sent from the central control unit (CCU), and indicates that the central control unit (CCU) has malfunctioned. The programmable responses include a warning output signal (WO) which is sent from the local unit (LU) to the central control unit (CCU) to indicate the presence of a local emergency at the local unit (LU).



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	N		CONDITION	SMOKE	detected	EARTHQUAKE	detected	PROXIMITY/	MOTION detected	NOXIOUS/POISON	GAS detected	LOSS OF LOCAL	POWER detected	LOSS OF CCU	detected (DI)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below.

I believe I am the original, first sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled A WARNING SYSTEM the specification of which

is attached hereto. was filed on and was amended on		ion Serial Nopplicable).		
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I hereby claim fore of any foreign application also identified below a having a filing date bef	n(s) for patent or ny foreign applic	inventor's certification for patent or	inventor's certific	ave
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United States provisiona provisional application	l application list number benefit under Titl sted below and, in on is not disclose the first paragrap disclose material .56(a) which occur	ed below: Date e 35, United States nsofar as the subject d in the prior Unite h of Title 35, Unit information as defin	Code, §120 of any Unict matter of each of ed States application ed States Code, §112 ned in Title 37, Code ling date of the pr	ted the in , I
Appl. Ser. No.	Filing Date	Status-patented, per	nding, abandoned	
I hereby appoint the business in the Patent a			tion and to transact	all
Timothy T. Tyson Ted Masters	Reg. No. 28,915 Reg. No. 36,209	Leon D. Rosen	Reg. No. 21,077	
Address all telephone ca Address all corresponden	ce to: Timoth Freili 10960	y T. Tyson at (310) y T. Tyson ch, Hornbaker & Rose Wilshire Blvd., Suit geles, CA 90024	en	
I hereby declare that all all statements made on in				

all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Roger E. Skoff Citizenship: U.S.A.

Inventor's Signature ROGER E. SKOFF

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